

State of Michigan Laptop Comparison Guide

As of 9/17/15

For the purpose of this document, we define a **laptop** as a device which has a permanently attached keyboard and screen that allows for portable use. This document provides guidance on the system units in the laptop category in iTRAC. Included are: the Business Laptop (Dell Latitude E5450), Mobile Worker Laptop (Dell Latitude E5550), the Technical/CAD/GIS Laptop (Dell Precision M4800 Mobile Workstation), the Rugged Laptop (Dell Latitude 14 Rugged), and the Executive Laptop (Dell Latitude E7250 Ultrabook).

NOTE: Numbers listed in this document (LXX) are ITRAC numbers.

How to decide which system unit is best for you

The decision will be based primarily on your business needs, but the following factors may help you decide on the device that is the best fit for you:

- If you are looking for an ultra-lightweight laptop, select the Dell Latitude E7250. An Ultrabook gives the user more mobility than a laptop but provides the same power as a laptop. If a laptop is too big or bulky and a tablet is not right for you, then choose an Ultrabook.
- If you are looking for a laptop with processing power and a solid state drive, select the Dell Precision M4800 Mobile Workstation.
- If you are looking for a laptop designed for harsh environments, select the Latitude 14 Rugged Notebook.
- Otherwise, select either the Dell E5450 (14") laptop or the Dell E5550 (15") laptop.

Details on each model

Dell E-Series Mobile Worker Laptop (15") – This laptop comes with a next business day, 4 year, on-site warranty. There are two options for this laptop, you can order with a dock (L50) or without one (L48).

Technical Specifications

- Intel® Core™ i5-5300U Processor (Dual Core, 3M Cache, 2.3 GHz)
- 8 GB 1600 MHz DDR3L
- 500 GB 2.5 inch Serial ATA (7200 RPM) Hard Drive
- 15.6" FHD (1920x1080) Non-Touch Anti-Glare LCD
- No DVD-ROM
- SD 4.0 Memory Card Reader
- Intel Dual Band Wireless-AC 7260 802.11ac/a/b/g/n



- Bluetooth 4.0
- 3 USB 3.0
- 1 VGA Port
- 1 HDMI

This model comes with a built-in numeric keypad.

Dell E-Series Business Laptop (14") – This laptop comes with a next business day 4 year on-site support. There are two options for this laptop, order with a dock (L52) or without a dock (L57).

Technical Specifications

- Intel® Core™ i5-5300U Processor (Dual Core, 3M Cache, 2.3 GHz)
- 8 GB 1600 MHz DDR3L
- 500 GB 2.5 inch Serial ATA (7200 RPM) Hard Drive
- 14" FHD (1920x1080) Anti-Glare LCD
- No DVD-ROM
- SD 4.0 Memory Card Reader
- Intel Dual Band Wireless-AC 7260 802.11ac/a/b/g/n
- Bluetooth 4.0
- 3 USB 3.0
- 1 VGA Port
- 1 HDMI



CAD/GIS/Technical Laptop (Dell Precision M4800 Mobile Workstation) – This laptop comes with a 4 year, next business day, onsite warranty. The iTRAC number is L87.

Technical Specifications

- Intel® Core™ i7-4700MQ Processor (Quad Core, 6M Cache, 2.4 GHz)
- AMD FirePro M5100 w/2GB GDDR5
- 8 GB DDR3L
- 256GB Solid State Drive Full Mini Card
- 15.6" UltraSharp FHD(1920x1080) Wide View Anti-Glare Screen
- DVD-ROM; Slot load DVD+/-RW; Blu-ray Disc writer
- Intel Dual Band Wireless-AC 7260 802.11ac/a/b/g/n
- Bluetooth 4.0
- 4 USB 3.0
- 1 VGA Port
- 1 HDMI
- 1 DisplayPort



If you need a docking station, the Dell E-Series Advanced Port Replicator (L47) will work with this laptop.

Dell Latitude 14 Rugged

This laptop features heavy-duty components to withstand shocks, drops, and vibrations. All entry points are protected by mechanical door with IP-52 rated ingress protection to guard against dust and water. The RGB backlit keyboard is fully protected and water-resistant.

This laptop comes with a 4 year warranty, with rapid mail in service. (Dell does not offer an onsite support option for this model.) There are two options for this laptop, you can select it with a dock(L94) or one without one(L95).

Technical Specifications

- Intel® Core™ i7-4650U Processor (1.7 GHz, 4M Cache, Dual Core)
- 8GB DDR3L 1600MHz
- 256GB Mobility Solid State Drive
- 14.0" HD (1366x768) Direct-View outdoor-readable display with resistive touchscreen
- No DVD-ROM
- Intel Dual Band Wireless-AC 7260 802.11ac/a/b/g/n
- Bluetooth 4.0
- Dimensions: 1.29-1.37" x 14.80" x 10.08"
- 2 USB 3.0 and 2 USB 2.0
- 1 VGA Port
- 1 HDMI



Dell Executive Ultrabook (Latitude E7250)

An Ultrabook gives the user more mobility than a laptop, but provides the same power as a laptop. If a laptop is too big or bulky and a tablet is not right for you, then choose an Ultrabook.

This laptop comes with a 4 year, next business day, on-site warranty. The iTRAC number is L92.

Technical Specifications

- Intel® Core™ i7 -5600U Processor (2.6 GHz, 4M Cache)
- 8GB 1600MHz DDR3L
- 256GB SATA3 SSD Mini-card
- 12.5" FHD (1920x1080) LED-backlit LCD Touch Panel
- Intel Dual Band Wireless-AC 7260 802.11ac/a/b/g/n
- Bluetooth 4.0
- 3 USB 3.0
- 1 HDMI
- 1 mDisplayPort



If you need a docking station, either the L56-Dell E-Series Port Replicator or the L47-Dell E-Series Advanced Port Replicator will work with this Ultrabook.

Comparison

	<u>Latitude 14 Rugged</u>		<u>Latitude E7250</u>	<u>Precision</u>
	L94	L95	L92	L87
Processor	i7	i7	i7	i7
Wireless	Yes	Yes	Yes	Yes
Storage	256 GB SSD	256 GB SSD	256 GB SATA3	256 GB SSD
Keyboard	Backlit	Backlit	Backlit	Backlit
Camera	Yes	Yes	Yes	Yes
Memory	8 GB DDR3L	8 GB DDR3L	8 GB DDR3L	8 GB DDR3L
Dock	Yes	No	No	No
Warranty	4 year Mail-In	4 year Mail-In	4 year On-Site	4 year On-Site
Screen	14 " Touchscreen	14" Touchscreen	12.5" Touchscreen	15.6" UltraSharp
USB Ports	4 USB (2 3.0, 2 2.0)	4 USB (2 3.0, 2 2.0)	3 USB 3.0	4 USB 3.0
Display Ports	2 (HDMI, VGA)	2 (HDMI, VGA)	2 (HDMI, mDisplay)	3 (HDMI, VGA, DisplayPort)

	<u>E-Series Mobile Worker</u>		<u>E-Business Laptop</u>	
	L48	L50	L52	L57
Processor	i5	i5	i5	i5
Wireless	Yes	Yes	Yes	Yes
Storage	500 GB SATA	500 GB SATA	500 GB SATA	500GB SATA
Keyboard	No Backlight	No Backlight	No Backlight	No Backlight
Camera	Yes	Yes	Yes	Yes
Memory	8 GB DDR3L	8 GB DDR3L	8 GB DDR3L	8GB DDR3L
Dock	No	Yes	Yes	No
Warranty	4 year On-Site	4 year On-Site	4 year On-Site	4 year On-Site
Screen	15.6" LCD	15.6" LCD	14" LCD	14" LCD
USB Ports	3 USB 3.0	3 USB 3.0	3 USB 3.0	3 USB 3.0
Display Ports	2 (HDMI, VGA)	2 (HDMI,VGA)	2 (HDMI,VGA)	2 (HDMI, VGA)

These are the Approved Laptops for purchase in the State of Michigan.